

BIOGRAPHICAL SKETCH

NAME Ashmead, Daniel H.		POSITION TITLE Associate Professor	
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Brown University, Providence, RI	BS	1976	Psychology
University of Minnesota, Minneapolis, MN	PhD	1983	Child Psychology
University of Massachusetts, Amherst	Postdoc	1984	Child Psychology

A. Positions and Honors**Positions and Employment**

- 1975 – 1976 Undergraduate Research Assistant, Dr. Lewis P. Lipsitt, Department of Psychology, Brown University
- 1976 – 1979 National Science Foundation Graduate Fellowship, Institute of Child Development, University of Minnesota
- 1979 – 1980 Eva O. Miller Graduate Fellowship, Institute of Child Development, University of Minnesota
- 1983 – 1984 Post-doctoral Fellowship, National Institute of Child Health and Human Development, with Dr. Rachel K. Clifton, Department of Psychology, University of Massachusetts
- 1984 – 1992 Assistant Professor, Department of Psychology, Vanderbilt University
- 1992 – 1996 Assistant Professor, Division of Hearing & Speech Sciences, Vanderbilt University Medical Center
- 1993 – pres Assistant Professor (secondary appointment), Department of Psychology, Vanderbilt University
- 1997 – pres Associate Professor, Department of Hearing & Speech Sciences, Vanderbilt University Medical Center
- 1999 – pres Associate Professor (secondary appointment), Department of Psychology & Human Development, Peabody College of Vanderbilt University

Honors and Awards

- 1975 Sigma Xi, Brown University Chapter
- 1975 Harold Schlossberg Memorial Award, Brown University
- 1976 – 1979 National Science Foundation Predoctoral Fellowship
- 1983 – 1984 National Research Service Award (NICHD)
- 1988 – 1993 FIRST Grant Award (NICHD)
- 2001 Editor's Award, outstanding journal article of the year, American Speech Language Hearing Association
- 2002 American Psychological Association – Fellow (Division 7, Developmental)
- 2002 Psychonomic Society

B. Selected Peer-reviewed Publications

Ashmead, D. H., Clifton, R. K., & Perris, E. E. (1987). Precision of auditory localization in human infants. *Developmental Psychology*, 23, 641-657.

Ashmead, D. H., Hill, E. W., & Talor, C. R. (1989). Obstacle perception by congenitally blind children. *Perception & Psychophysics*, 46, 425-433.

- Ashmead, D. H., LeRoy, D., & Odom, R. (1990). Perception of the relative distances of nearby sound sources. *Perception & Psychophysics*, *47*, 326-331.
- Rieser, J. J., Ashmead, D. H., Talor, C. R., & Youngquist, G. A. (1990). Visual perception and the guidance of locomotion without vision to previously seen targets. *Perception*, *19*, 675-68.
- Ashmead, D. H., Davis, D. L., Whalen, T. A., & Odom, R. D. (1991). Sound localization and interaural time discrimination in human infants. *Child Development*, *62*, 1211-1226.
- Ashmead, D. H., & McCarty, M. E. (1991). Postural sway of human infants while standing in light and dark. *Child Development*, *62*, 1276-1287.
- Ashmead, D. H., McCarty, M. E., Lucas, L. S., & Belvedere, M. C. (1993). Visual guidance in infants' reaching toward suddenly displaced targets. *Child Development*, *64*, 1111-1127.
- Clifton, R. K., Muir, D. W., Ashmead, D. H., & Clarkson, M. G. (1993). Is visually guided reaching in early infancy a myth? *Child Development*, *64*, 1099-1110.
- Tharpe, A. M., & Ashmead, D. H. (1993). A computer simulation technique for assessing pediatric auditory test protocols. *Journal of the American Academy of Audiology*, *4*, 80-90.
- Charles, P. D., Abou-Khalil, R., Abou-Khalil, B., Wertz, R. T., Ashmead, D. H., Welch, L., & Kirshner, H. S. (1994). MRI asymmetries and language dominance. *Neurology*, *44*, 2050-2054.
- Ashmead, D. H., Davis, D. L., & Northington, A. (1995). The contribution of listeners' approaching motion to auditory distance perception. *Journal of Experimental Psychology: Human Perception & Performance*, *21*, 239-256.
- Rieser, J. J., Pick, H. L. Jr., Ashmead, D. H., & Garing, A. E. (1995). The calibration of human locomotion and models of perceptual-motor organization. *Journal of Experimental Psychology: Human Perception & Performance*, *21*, 480-497.
- Ashmead, D. H., & Davis, D. L. (1996). Measuring habituation in infants: An approach using regression analysis. *Child Development*, *67*, 2677-2690.
- Hasan, S., Robin, D. W., Szurkus, D. C., Ashmead, D. H., Peterson, S. W., & Shiavi, R. G. (1996). Simultaneous measurement of body center of pressure and center of gravity during upright stance. I. Methods. *Gait and Posture*.
- Hasan, S., Robin, D. W., Szurkus, D. C., Ashmead, D. H., Peterson, S. W., & Shiavi, R. G. (1996). Simultaneous measurement of body center of pressure and center of gravity during upright stance. II. Amplitude and frequency data. *Gait and Posture*.
- Litovsky, R. & Ashmead, D. H. (1997). Development of sound localization and binaural hearing in infants and children. In T. R. Anderson & R. H. Gilkey (Eds.), *Binaural and spatial hearing* (pp. 571-592). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Ashmead, D. H., Wall, R. S., Eaton, S. B., Ebinger, K. A., Snook-Hill, M-M., Guth, D. A., & Yang, X. (1998). Echolocation reconsidered: Using spatial variations in the ambient sound field to guide locomotion. *Journal of Visual Impairment & Blindness*, *92*, 615-632.
- Ashmead, D. H., Wall, R. S., Ebinger, K. A., Eaton, S. B., Snook-Hill, M-M., & Yang, X. (1998). Spatial hearing in children with visual disabilities. *Perception*, *27*, 105-122.
- Strouse, A., Ashmead, D. H., Ohde, R. N., & Grantham, D. W. (1998). Temporal processing in the aging auditory system. *Journal of the Acoustical Society of America*, *104*, 2385-2399.
- Ashmead, D. H., & Wall, R. S. (1999). Auditory perception of walls via spectral variations in the ambient sound field. *Journal of Rehabilitation Research and Development*, *36*(4), 313-322.
- Laowattana, S., Abou-Khalil, B., Fakhoury, T., Ashmead, D. H. (1999). Brief antiepileptic drug withdrawal prolongs interval to next seizure. *Neurology*, *53*, 1736-1741.
- McCarty, M. E., & Ashmead, D. H. (1999). Visual control of reaching and grasping in infants. *Developmental Psychology*, *35*(3), 620-631.
- Bourland, C., Tharpe, A. M., & Ashmead, D. H. (2000). Behavioral auditory assessment of young infants: Methodological limitations or natural lack of auditory responsiveness? *American Journal of Audiology*, *92*(2), 124-130.
- McCarty, M. E., Clifton, R. K., Ashmead, D. H., Lee, P., & Goubet, N. (2001). How infants use vision for grasping objects. *Child Development*, *72*(4), 973-987.
- Perry, T. L., Ohde, R. N., & Ashmead, D. H. (2001). The acoustic basis for gender identification from children's voices. *Journal of the Acoustical Society of America*, *109*(6), 2988-2998.

Tharpe, A. M., & Ashmead, D. H. (2001). A longitudinal investigation of infant auditory sensitivity. *Journal of the American Academy of Audiology*, 10, 104-112.

Tharpe, A. M., Ashmead, D. H., Ricketts, T. A., Rothpletz, A. M., & Wall, R. S. (2002). Optimization of amplification for deaf-blind children. In R. C. Seewald & J. S. Gravel (Eds.), *A sound foundation through early amplification 2001* (pp. 203-209). Stäfa, Switzerland: Phonak AG.

Tharpe, A. M., Ashmead, D. H., & Rothpletz, A. M. (2002). Visual attention in children with normal hearing, children with hearing aids, and children with cochlear implants. *Journal of Speech, Language, and Hearing Research*, 45, 403-413.

Wall, R. S., & Ashmead, D. H. (2002). Changes in biomechanical features of the two-point touch technique as it is learned. *Journal of Visual Impairment and Blindness*, 96, 829-841.

Ashmead, D. H., & Tharpe, A. M. (in press). Development of audition in children. In Kent, R. (Ed.), *MIT Encyclopedia of Communication Disorders*. Cambridge, MA: MIT Press.

Ashmead, D. H. & Wall, R. S. (2002). Low frequency sound as a navigational tool for people with visual impairments. *Journal of Low Frequency Noise, Vibration, and Active Control*, 21(4), 199-205.

Rothpletz, A. M., Ashmead, D. H., & Tharpe, A. M. (2003). Responses to targets in the visual periphery in deaf and normal-hearing adults. *Journal of Speech, Language, and Hearing Research*, 46, 1378-1386.

Wall, R. S., Ashmead, D. H., Bentzen, B. L., & Barlow, J. (2004). Directional guidance of audible pedestrian signals for street crossing. *Ergonomics*, 47(12), 1318-1338.

Ashmead, D. H., Wall, R. S., Bentzen, B. L., & Barlow, J. (2004). Which crosswalk? Effects of accessible pedestrian signal characteristics. *ITE Journal*, 74(9), 26-30.

Guth, D., Ashmead, D., Long, R., Wall, R., & Ponchillia, P. (in press). Blind and sighted pedestrians' judgments of gaps in traffic at roundabouts. *Human Factors*.

Grantham, D. W., Ashmead, D. H., and Ricketts, T. A. (in press). Sound Localization in the Frontal Horizontal Plane by Post-Lingually Deafened Adults Fitted with Bilateral Cochlear Implants, in Pressnitzer, D., de Cheveigné, A., McAdams, S., and Collet, L. (Eds.) *Auditory signal processing: physiology, psychoacoustics, and models*. New York, Springer (pp. 390-397).

Grantham, D. W., Willhite, J., Frampton, K. D., & Ashmead, D. H. (in press). Reduced order modeling of head related impulse responses for virtual acoustic displays. *Journal of the Acoustical Society of America*.

Long, R. G., Guth, D. A., Ashmead, D. H., Wall, R. S., & Ponchillia, P. E. (in press). Modern roundabouts: Access by pedestrians who are blind. *Journal of Visual Impairment & Blindness*.

Ashmead, D. H., Guth, D., Wall, R. S., Long, R., & Ponchillia, P. (in press). Street crossing by sighted and blind pedestrians at a modern roundabout. *Journal of Transportation Engineering*.

C. Research Support

Ongoing Research Support

R03DC006576 – Hornsby (PI)

08/01/04 – 07/31/07

NIDCD

Hearing Loss and the Utility of Speech Information

Our broad long term research goals are to identify the factors that limit aided speech understanding of persons with SNHL and develop rehabilitative strategies to reduce the negative consequences of this highly prevalent disease.

Role:

R01DC001149 – Zealear (PI)

09/30/90 – 11/30/06

NIH/NIDCD

Rehabilitation of the Paralyzed Larynx

The over all goal of this project is to restore abduction in animals with bilateral laryngeal paralysis using an implantable stimulation device, and to determine the mechanisms by which electrical stimulation promotes selective reinnervation of the devernated posterior cricoarytenoid muscle by its original native motoneurons over foreign ones.

Role: Co-Investigator

Completed Research Support

H133G020097 – Ricketts (PI)

09/01/02 – 08/31/06

EDUC

Factors Affecting Directional Hearing Aid Performance in Children

The major goals of this project are to determine the factors that impact children's success with directional hearing aids. Classroom observation, mapping of head position, and simulated real world evaluation of directional benefit data are currently being collected. This study is currently in the first year of data collection. This study is not directly related to the proposed project with the exception that both are designed to improve hearing aid recommendations and protocols for individuals with hearing loss.

Role: Co-Investigator

R24 EY012894 – Long (PI)

07/01/00 – 05/31/06

NIH/NEI

Blind Pedestrians' Access to Complex Intersections (subcontract with Western Michigan Univ.)

The major goals of this project are: to use the strengths of a multidisciplinary team to understand the perceptual and cognitive requirements of negotiating complex intersections without vision and with low vision; to design and test engineering and training solutions to problems of information access that are currently known and that are identified in the course of this partnership; and to produce materials about the problems and solutions that are useful to transportation engineers, individuals and visual impairments, and rehabilitation personnel. The Vanderbilt team will work to develop more useful pedestrian signals and will conduct basic acoustics research about the perception of moving sound sources as this relates to street crossing. In addition, they will develop a two-speaker auditory motion display as a research and training tool.

Role: PI, VU Site